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| Substitute for form 1449A/PTO | | | | Application Number | 10826814 |
| INFORMATION DISCLOSURE | | | | Filing Date | 4/16/2004 |
| STATEMENT BY APPLICANT | | | IT | First Named Inventor | G. Glenn Henry |
| 2 | | | | Group Art Unit | 2131 |
| (use as many sheets as necessary | | | 4.74 | Examiner Name | Christian A LaForgia |
| Sheet | 1 | of | 1 | Attorney Docket Number | CNTR.2226 |

| | | | U.S. PATENT | DOCUMENTS | |
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| Exeminer Cite | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where |
| Initials* | No.1 | Number-Kind Code ^{2(# known)} | MM-DD-YYYY | Applicant of Cited Document | Relevant Passages or Relevant Figure: Appear |
| # | | 6081884 | 06-27-2000 | Paul K. Miller | |
| | | 7194090 | 03-20-2007 | Muratani et al. | |
| 1 | | 7110545 | 09-19-2006 | Furuya et al. | |
| | | 6919684 | 07-19-2005 | Brian Brandes | |
| 1. | | 6674874 | 01-06-2004 | Yoshida et al. | |
| 1// | | 6269163 | 07-31-2001 | Rivest et al. | |
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| | FOREIGN PATENT DOCUMENTS | | | | | | | | |
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| Examiner | Cite | Foreign Patent Document | Publication Date | Name of Patentee or | Pages, Columns, Lines, | - 6 | | | |
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| *************************************** | U.S. PATENT DOCUMENTS | | | | | | | |
|---|-----------------------|--|------------------|-----------------------------|--|--|--|--|
| Examiner | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where | | | |
| Initials* | No.' | Number-Kind Code ^{2(# known)} | MM-DD-YYYY | Applicant of Cited Document | Relevant Passages or Relevant Figures Appear | | | |
| $-\mathcal{U}$ | | 5828873 | 10-27-1998 | Thomas W. Lynch | | | | |
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| | | NON PATENT LITERATURE DOCUMENTS | |
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| | | KIM, Ho Won et al. "Design and implementation of a Private and Public Key Crypto Porcessor and its Application to a Security System." IEEE Transactions on Consumer Electronics. Vol. 50, No. 1, February 2004. Pages 214 - 224 | Ţ |
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| • | U.G. PATENT DOCUMENTS | | | | | | | | | |
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| F | | CN1309351A (US Patent 6983374 provided herewith as an English- Language Equivalent) | 08-22-2001 | Hashimoto et al. | | | | | | |
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| | U.S. PATENT DOCUMENTS | | | | | | | | |
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| Examiner Cite | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where | | | | |
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| Cite | Foreign Patent Document | Publication Date | Name of Patentee or | Pages, Columns, Lines, | 7-6 |
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| | CN1309351A (US Patent 6983374 provided herewith as an English- Language Equivalent) | 08-22-2001 | Hashimoto et al. | | |
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| Sheet 1 of | | 4 | Attorney Docket Number | CNTR.2226 | | |

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|-------------------------------|-----------------|--|--|--|---|--|--|--|
| | | Number-Kind Code ^{2(# known)} | MM-DD-YYYY Applicant of Cited Document | MM-DD-YYYY Applicant of Cited Document | | | MM-DD-YYYY Applicant of Cited Document | |
| 11 | | 6789147 | 09-07-2004 | Kessler et al. | | | | |
| 7 | | 6026490 | 02-15-2000 | Johns-Vano et al. | | | | |
| | | 5134713 | 07-28-1992 | Miller et al. | | | | |
| | | 20010050989 | 12-13-2001 | Jabari Zakiya | - | | | |
| 1 | | 20040047466 | 03-11-2004 | Feldman et al. | | | | |
| 1// | | 6246768 | 06-12-2001 | Yong-Duk Kim | | | | |
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| Examiner | Cite | Foreign Patent Document | Publication Date | Name of Patentee or | Pages, Columns, Lines, | T+0 | | | | | |
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| 110 | AA | EP1215842 | 06-19-2002 | Qi et al. | | L | | | | | |
| TIV | AB | WO0117152 | 03-08-2001 | Salomao et al. | | | | | | | |
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PTO/S8/03A (08-03)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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| | | | U.S. PATENT | DOCUMENTS | |
|-----------|------|--|------------------|-----------------------------|--|
| Examiner | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where |
| Initials* | No.¹ | Number-Kind Code ^{2(# known)} | MM-DD-YYYY | Applicant of Cited Document | Relevant Passages or Relevant Figures Appear |
| | | 6983374 | 01-03-2006 | Hashimolo et al. | |
| Ţ | | 7073059 | 07-04-2008 | Worely et al. | |
| | | 6006328 | 12-21-1999 | Christopher Nathan Drake | |
| | | 7184549 | 02-27-2007 | Sorimachi et al. | |
| A | | 7124302 | 10-17-2006 | Ginter et al. | |
| | | 7088826 | 08-08-2006 | . Houlberg et al. | |
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| Initials* | No. | Number-Kind Code?(# inown) | MM-DD-YYYY | Applicant of Cited Document | Relevant Passages or Relevant Figures Appear |
| \mathcal{H} | | 6983374 | 01-03-2006 | Hashimoto et al. | |
| ı | | 7073059 | 07-04-2006 | Worely et al. | |
| | | 6006328 | 12-21-1999 | Christopher Nathan Drake | |
| | | 7184549 | 02-27-2007 | Sorimachi et al. | |
| 1/ | | 7124302 | 10-17-2006 | Ginter et el. | |
| 77 | | 7088826 | 08-08-2006 | Houlberg et al. | |
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| Examiner | Cite | Foreign Patent Document | Publication Date | Name of Patentee or | Pages, Columns, Lines, | 7.6 |
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| | | | U.S. PATENT | DOCUMENTS | |
|-----------|------|--|------------------|---------------------------------------|--|
| Examiner | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where |
| Initials* | No.' | Number-Kind Code ^{2(# known)} | MM-DD-YYYY | Applicant of Cited Document | Relevant Passages or Relevant Figures Appear |
| U | | 5633934 | 05-27-1997 | John T. Hember | |
| 1 | | 4319079 | 03-09-1982 | Robert M. Best | |
| | | 4888802 | 12-19-1989 | Henry G. Cooney | |
| | | 4386234 | 05-31-1983 | Ehrsam et al. | |
| V | | 20020162026 | 10-31-2002 | Neuman et al. | |
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| | | NON PATENT LITERATURE DOCUMENTS | | | | |
| xaminer Initials* | nitials* No.1 (Book, magazine, journal, senal symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, | | | | | |
| # | AA | Dimond et al. "Application-specific Customisation of Multi-Threaded Soft Processors." Computers and Digital Techniques. IEEE Proceedings. Volume 153, Issue 3, 2 May 2006. Pages 173-180. | | | | |
| λ | AB | Anderson et al. "Cryptographic Processors - A Survey." Proceedings of the IEEE. Volume 94, Issue 2, Feb. 2006. Pages 357-369. | L | | | |
| | AC | Eberte et al. "Architectural Extensions for Elliptic Curve Cryptography over GF(2") on 8-bit Microprocessors." Application- Specific Systems. Architecture Processors. 2005. ASAP 2005. 16th IEEE International Conference on 23-25 July 2005. Pages 343-349. | l | | | |
| \sqrt{I} | AD | KUHN, Markus G. "Cipher Instruction Search Attack on the Bus-Encryption Security Microcontroller DS5002FP." Computers, IEEE Transactions on Volume 47, Issue 10. Oct. 1998. Pages 1153-1157. | L | | | |
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| | | | U.S. PATENT | DOCUMENTS | |
|----------|------|--|------------------|-----------------------------|--|
| Examiner | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where |
| Initials | No. | Number-Kind Code ^{2(# Mount)} | MM-DD-YYYY | Applicant of Cited Document | Relevant Passages or Relevant Figures Appear |
| The | | 4168396 | 09-18-1979 | Robert M. Best | |
| il | | 4278837 | 07-14-1981 | Robert M. Best | |
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Substitute for form 1449A/PTO

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| W | | FISCHER et al. "Two M | ethods o | f Rijndaet Implement 2001. CHES | elion in Reconfigurable Hardware 2001. LNCS 2162. pp 77-92. | e." Springer-verlag Berlin Heldelberg | |
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| | | | U.S. PATENT | DOCUMENTS | |
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| Examiner | Examiner Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures |
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| IP | | WO03036508 | 05-01-2003 | Leslie D. Kohn | · | |
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| INFOR | MATION DIS | CLOSU | RE | Filing Date | 4/16/2004 | |
| STATE | MENT BY A | PPLICA | NT | First Named Inventor | G. Glenn Henry | |
| | | | | Group Art Unit | 2131 | |
| (use | as many sheets as | s necessary | | Examiner Name | AYAZ R. SHEIKH | |
| Sheet 1 of 1 | | | | Attorney Docket Number | CNTR.2226 | |

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| | | LEE et al. "Efficient Permutation Instructions for Fast Software Cryptography." IEEE Micro, Nov 2001. Pages 56-69 | 4 |
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| Substitute for form 14497 | WP10 | | | Application Number | 10/826814 | |
| INFOR | MATION DIS | SCLOSUR | RE | Filing Date | 04/16/04 | |
| STATEMENT BY APPLICANT | | | | First Named Inventor | G. Glenn Henry | |
| | • | | • | Group Art Unit | 2131 | |
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| | | | U.S. PATENT | DOCUMENTS | |
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| Examiner | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where |
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| | | 20030202658 | 10-30-2003 | Ingrid Verbauwhede | |
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| Sheet 2 of 2 | | | | Attorney Docket Number | CNTR.2226 | |

| | | NON PATENT LITERATURE DOCUMENTS | |
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| H. | | MCKINNON et al. "A Configurable Middleware Framework with Multiple Quality of Service Properties for Small Embedded Systems." NETWORK COMPUTING AND APPLICATIONS, 2003. NCA 2003. SECOND IEEE INTERNATIONAL SYMPOSIUM ON 16-18 APRIL 2003, PISCATAWAY, NJ, USA IEEE, 16 APRIL 2003. Pages 197-204, XP010840251 ISBN: 0-7695-1938-5 | |
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| Sheet 1 of 2 | | | | Attorney Docket Number | CNTR.2226 | |

| | | | U.S. PATENT | DOCUMENTS | |
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| Examiner | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where |
| Initials* | No.' | Number-Kind Code ^{2(# Inoun)} | MM-DD-YYYY | Applicant of Cited Document | Relevant Passages or Relevant Figures Appear |
| 71 | | 20020101985 | 08-01-2002 | CaMgnac et al. | |
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| P | AA | WO0184769A | 11-08-2001 | Lindemann et al. | | Г |
| H | AB | CN1431584A (US20030172252A1 is an English-Language Equivalent Application) | 07-23-2003 | Henry et al. * | | |
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| | | NON PATENT LITERATURE DOCUMENTS | |
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| Examiner Initials* | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T, |
| H | ВА | WU et al. "CryptoManiac: a fast flexible architecture for secure communication." Proceedings of the 28th. International Symposium on Computer Architecture. ISCA 2001. 06-30-2001 pages 104-113, XP010553867 | |
| 7 | 88 | GLADMAN, BRIAN. "A Specification for Rijndael, the AES Algorithm." Online. 03/13/2003. XP002376287 | T |
| 1 | BC | BACKHUS E. "AES in FPGAS Implementierung Des Advanced Encryption Standards in Hardware." Elektronik, WEKA Fachzeitschriftenverlag, Poing, DE. Vol. 52, no.8. 04/15/2003 pages 54-56, 58, 60. XP001160048 | |
| 11 | BD | DAEMON J et al. "AES Proposal: RIJNDAEL." AES Proposal 09/03/1999. pages 1-45, XP001060386 | T |
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| | | | U.S. PATENT | DOCUMENTS | |
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| Examiner Initials* Cite No. Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | | | | |
| 7 | ВА | SCHNEIER. "Applied Cryptography, Protocols, Algorithms and Source Code in C." 2nd edition 2.3 One Way Funtions Applied Cryptography. 18 October 1995. pages 29-31, 193. XP002224472. | | | | |
| 1 | 88 | RECHENBERG et al. "Informatik-Handbuch" INFORMATIK-HANDBUCH, 2002, XP0023666659. page 304 - page 324. | | | | |
| | вс | INSTITUTE FOR APPLIED INFORMATION PROCESSING AND COMMUNICATIONS, TU GRAZ: "Cryptographic Logic Unit /Crypto Unit Macrocell Webpages." CRYPTOGRAPHIC REDUCED INSTRUCTION SET PROCESSOR SMARTCARD, online 12 April 2000. XP00236660 Retrieved from the Internet: URL: http://web.archive.org/web/20000412010535 http://www.iaik.tu-graz.ac.at/Research/VLSI/CRISP/crisp.htm retrieved on 2006-02-07! page 8 | | | | |
| V | BD | "Secure Microcontrollers for Smart Cards. AT90SC Summary" ANNOUNCEMENT ATMEL, 1999, pages 1-7. XP002291271 | | | | |
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10/826814

G. Glenn Henry

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| | | ULMAN | N, B. "Desig | ning a NICE I | Processor." Mic | roprocessors and Microsyste | ms, IPC Busin | ness Press LTD. London, GB. | |
| 11- | | | V | or. 23, No. 5. | 25 October 199. | 9. Pages 257-264. XP00432 | 214/9 ISSN: | V141-9557. | + |
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| | | *************************************** | U.S. PATENT | DOCUMENTS | |
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| Examiner | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where |
| Miliar | No.¹ | Number-Kind Code ^{2(# known)} | MM-DD-YYYY | Applicant of Cited Document | Relevant Passages or Relevant Figures Appear |
| · 11 | | 4250546 | 02-10-1981 | Boney et al. | |
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| 77 | AA | WO0076119A1 | 12-14-2000 | Daniel 2. Simon | | |
| 17 | AB | EP0913767A2 | 05-06-1999 | Moyer et al. | | |
| | AC | JP57176457 (abstract) | 10-29-1982 | Kato Takeshi | | |
| HZ. | AD | WO0144900A2 | 6-21-2001 | Fleming et al. | | |
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| H | ВА | SCH | NEIER: "Appl | lled Cryp | xogra | phy." 1996. John W | iley & Sons, New York, US. XI 11, Pages 446-459. | 002341498. Pages | 30-31, Pages 189- | 1. |
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| 1 | AA | EP1351432A | 10-08-2003 | Qi et al. | | | | | | |
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| First Named Inventor | G. GLENN HENRY | ٦ |
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| Initials* | No.' | Number-Kind Code ^{2(# known)} | MM-DD-YYYY | Applicant of Cited Document | Relevant Passages or Relevant Figures Appear |
| - XX | | 5666411 | 09-09-1997 | McCarty, Johnnie C. | |
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| | AB | EP1202150A2 | 05-02-2002 | Tokyo Shibaura Electric | | _ |
| | AC | DE3432721A1 (English-language version of the search report or action which indicates the degree of relevance found by the foreign office is attached.) | 03-06-1986 | Hahn, Ruediger | | |
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| P | AA | DAVID E. KIMBLE, MITSURA SHIMADA, NAVIN CHANDER; "FIFO ARCHITECTURE WITH IN-PLACE CRYPTOGRAPHIC SERVICE"; 02/27/2003;TEXAS INSTRUMENTS INCORPORATED; DALLAS, TX, USA. | |
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| | | | | Group Art Unit | Telly Parks | | |
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| U.S. PATENT DOCUMENTS | | | | | | | |
|-----------------------|--------------|-------------------------|---------------------------|----------------------------------|---------------------------|--|--|
| Examiner Initials | Cite No.1 | U.S. Patent Document | | Name of Patentee or Applicant | Date of Publication of | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | |
| | | Number | Kind Code ² | of Cited Document | Cited Document MM-DD-YYYY | | |
| H | AA | 4316055 | | Feistel, Horst | 02/16/1982 | | |
| i | AB | 5016276 | | Matumoto et al | 05/14/1991 | | |
| 1 | AC | 5218637 | | Angebaud et al | 06/08/1993 | | |
| | · AD | 5673319 | | Bellare et al | 09/30/1997 | | |
| | AE | 5870470 | | Johnson et al | 02/09/1999 | | |
| | AF | 6182216 | | Luyster, Frank C. | 01/30/2001 | · | |
| | AG | 6301362 | | Matyas, Jr. et al | 10/09/2001 | | |
| 1, | AH | 6324286 | | Lai et al | 11/27/2001 | | |
| V | Al | 6578150 | | Luyster, Frank C. | 06/10/2003 | | |
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| Examiner | Cite | Foreign Patent I | Document | Name of Patentee or Applicant of Cited Document | | Date or | f Publication of | Brans Calumna Nic | and Milhaus Colors |
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| STATEM | ENT BY A | PPLICAN | JT. | First Named Inventor | G. Glenn Henry | |
| • | | | | Group Art Unit | 2131 | |
| (use as | many sheets as | necessary | · | Examiner Name | AYAZ R. SHEIKH | |
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| P | ВА | TONG et al. "A system level implementation of Rijndael on a memory-slot based FPGA card." Field-Programmable Technology, 2002. (FPT). 16 December 2002 (2002-12-16), pages 102-109, XP010636515 ISBN: 0-7803-7574-2 | |
| | 88 | TAYLOR D E et al. "Dynamic Hardware Plugins: Exploiting Reconfigurable Hardware for High-Performance Programmable Routers." Computer Networks, Elsevier Science Publishers B.V., Amsterdam, NL, vol. 38, no. 3. 21 February 2002 pages 295-310. XP004333786. ISSN: 1389-1286 | |
| V | вс | ELBIRT A J et al. "Instruction-Level Distributed Processing for Symmetric-Key Cryptography." Parallel and Distributed Processing Symposium. 2003. 22 April 2003. pages 78-87. XP010645610 ISBN: 0-7695-1926-1 | |
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